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Allentown, PA 18106  
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## Photometric Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002

Prepared For  
**Auroralight Inc**  
2742 Loker Avenue West  
Carlsbad  
CA, 92010  
United States

Catalog Number  
**HPL8-2-30**  
Order Number  
**11745044**  
Test Number  
**11745044.22**

Test Date

2017-05-16

Prepared By

Javier Caban, Technician

Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Conical 8" copper shade with clear glass lens, cylindrical copper stem and brass base  
**Lamp:** 64 white LEDs  
**Mounting:** Path/Area  
**Ballast/Driver:** Integrated



**Luminaire Characteristics**

Luminous Diameter: 8.00 in.

**Summary of Results**

Roadway Classification: Type V, Very Short  
Cutoff Classification: Semicutoff  
BUG Rating: B0 U1 G0

**Test Conditions**

Test Temperature:	25.7 °C
Voltage:	12.00 VAC
Current:	0.2864 A
Power:	2.137 W
Power Factor:	0.622
Frequency:	60 Hz
Current THD:	88.1 %

Tested in 30 planes left side, 30 planes right side, left and right averaged  
Vertical test increments are 2.5 degrees  
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	12.00 VAC	0.2864 A	2.137 W	0.622	60 Hz	88.1 %

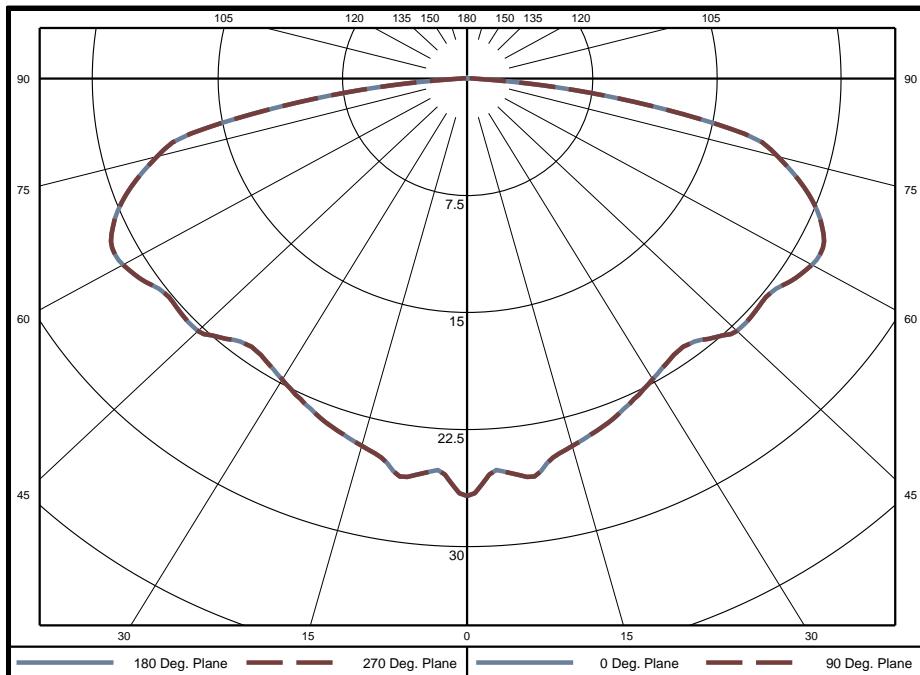
### Summary of Results

#### Spacing Criteria

0-180: 1.25  
90-270: 1.25

Total Lumen Output: 120.6 Lumens  
Luminaire Efficacy: 56.4 lm/w  
Maximum Candela: 27 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.61	0.5%	60-65	11.61	9.6%	120-125	0.01	0.0%
5-10	1.83	1.5%	65-70	11.53	9.6%	125-130	0.01	0.0%
10-15	2.94	2.4%	70-75	10.76	8.9%	130-135	0.01	0.0%
15-20	3.96	3.3%	75-80	9.12	7.6%	135-140	0.01	0.0%
20-25	4.90	4.1%	80-85	4.52	3.7%	140-145	0.01	0.0%
25-30	5.72	4.7%	85-90	0.70	0.6%	145-150	0.01	0.0%
30-35	6.45	5.3%	90-95	0.14	0.1%	150-155	0.01	0.0%
35-40	7.21	6.0%	95-100	0.05	0.0%	155-160	0.01	0.0%
40-45	8.30	6.9%	100-105	0.03	0.0%	160-165	0.01	0.0%
45-50	9.24	7.7%	105-110	0.02	0.0%	165-170	0.00	0.0%
50-55	9.93	8.2%	110-115	0.02	0.0%	170-175	0.00	0.0%
55-60	10.88	9.0%	115-120	0.01	0.0%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	34	27.9%
0-60	72	59.7%
0-90	120	99.7%
90-180	0	0.3%



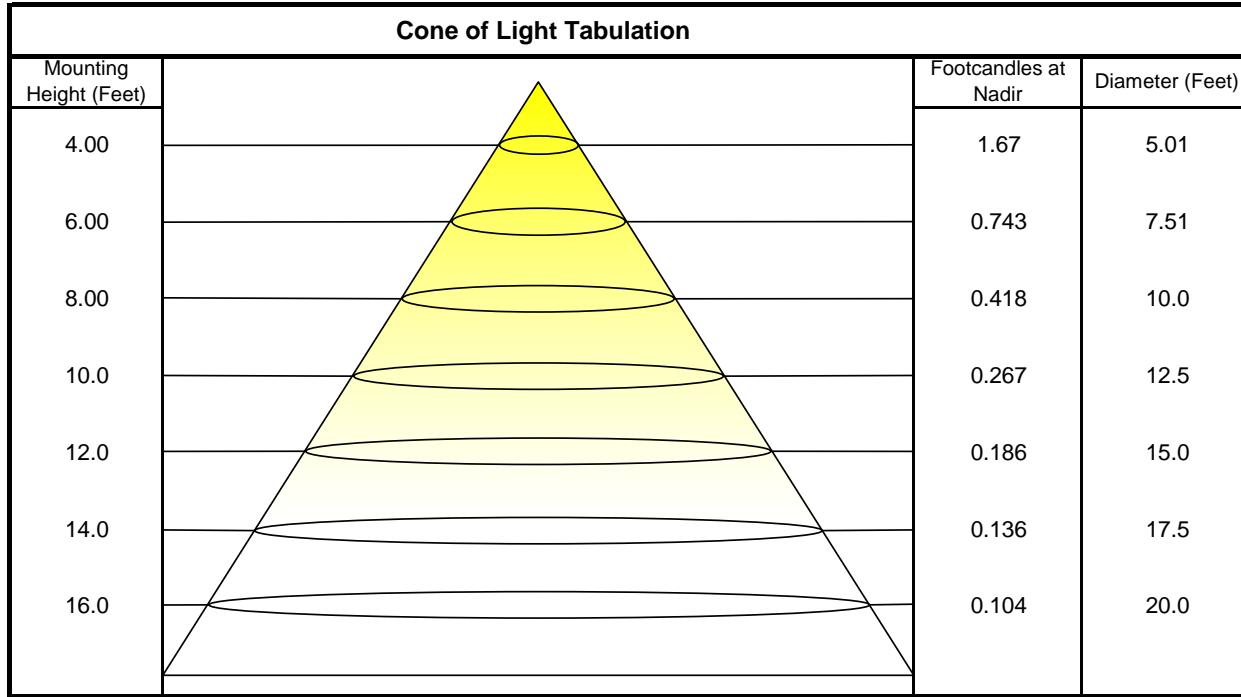


### Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50				30				10				0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																				
0	143	143	143	143	140	140	140	140	134	134	134	128	128	128	123	123	123	123	120		
1	127	119	112	106	123	116	110	104	111	106	101	106	102	98	101	98	95	92			
2	112	100	89	81	109	97	88	79	93	84	77	88	82	75	84	79	74	71			
3	100	85	73	63	97	83	71	62	79	69	61	75	67	60	72	65	59	56			
4	91	73	61	51	87	72	60	51	68	58	50	65	56	49	62	55	48	45			
5	82	64	52	42	80	63	51	42	60	50	42	58	48	41	55	47	40	37			
6	76	57	45	36	73	56	44	36	54	43	35	51	42	35	49	41	35	32			
7	70	51	39	31	67	50	39	31	48	38	31	46	37	30	45	36	30	27			
8	65	47	35	27	63	46	35	27	44	34	27	42	33	27	41	33	26	24			
9	60	42	32	24	58	42	31	24	40	31	24	39	30	24	37	29	24	21			
10	56	39	29	22	55	38	28	22	37	28	21	36	27	21	35	27	21	19			

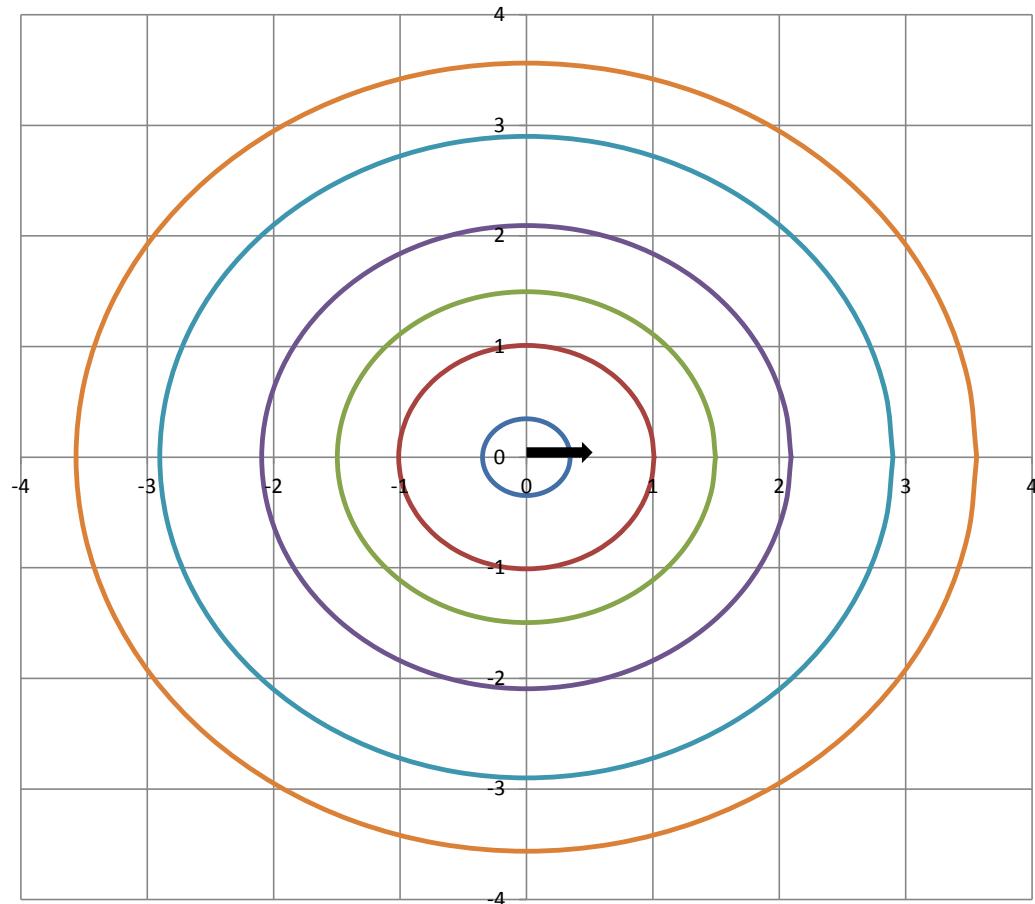
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	26.74 Candela
Central Cone Intensity:	26 Candela
Beam Flux:	114.8 Lumens
Beam Angle (0-180):	159.8 Degrees
Beam Angle (90-270):	159.8 Degrees
Field Angle (0-180):	171.3 Degrees
Field Angle (90-270):	171.3 Degrees





### ISOFootcandle Plot

Mounting Height - 2 Feet

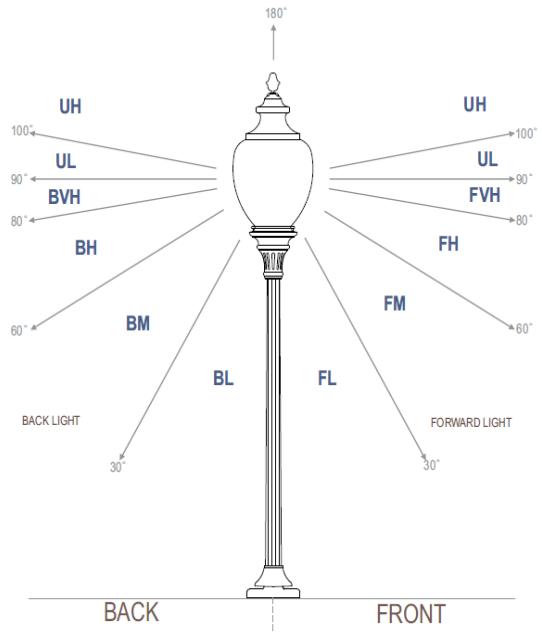


Grid Lines in Units of Mounting Height

— 5 fc — 2 fc — 1 fc — 0.5 fc — 0.2 fc — 0.1 fc



**IES "BUG" Rating**  
(Back Light, Uplight, Glare)  
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	10.0	8.2%
FM	(30-60)	26.1	21.5%
FH	(60-80)	21.6	17.8%
FVH	(80-90)	2.7	2.2%
BL	(0-30)	10.0	8.2%
BM	(30-60)	26.1	21.5%
BH	(60-80)	21.6	17.8%
BVH	(80-90)	2.7	2.2%
UL	(90-100)	0.2	0.2%
UH	(100-180)	0.2	0.2%
Total		121.2	100.0%
<b>BUG Rating</b>		<b>B0 U1 G0</b>	